Ball Lenses

Product Information
Polished ball lenses are produced by a mechanical machining process. Due to the high flexibility of the process the ball lenses are increasingly used as pre-forms for the precision molding process. The surface and geometry of each ball lens has an optical quality and can therefore also be used as an optical element.

Supply Forms
• Balls
• Hemispheres

Advantages
• Low Scratch-Dig
• Low Roughness
• Wide range of optical materials

Applications
• Optical Lens Element
• Pre-form for Precision Molding

Materials
• Low Tg glasses
• High refractive index glasses
• Optical and colored glasses
• Technical and special glasses

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Standard Quality</th>
<th>Premium Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter Tolerance</td>
<td>± 0.003 mm</td>
<td>± 0.001 mm</td>
</tr>
<tr>
<td>Surface Polish (Ra Value)</td>
<td>1 – 2 nm</td>
<td>1 – 1.2 nm</td>
</tr>
<tr>
<td>Roundness Tolerance</td>
<td>&lt; 0.001 mm</td>
<td>&lt; 0.001 mm</td>
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<tr>
<td>Surface Quality</td>
<td>No scratch; Dig at 20 x magnification</td>
<td>No scratch; Dig at 30 x magnification</td>
</tr>
<tr>
<td>Cleanliness</td>
<td>Class 100</td>
<td>Class 100</td>
</tr>
<tr>
<td>Packing</td>
<td>Clean Glass Vials Anti-Static Plastic Vials</td>
<td>Waffle Types Plastic Trays</td>
</tr>
</tbody>
</table>

For more information please contact:

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